

# Data sheet for Load Cells

Button Load Cells

Series KMB32



- Measuring range 0...400 N, 0...2 kN, 0...8 kN
- Strain gauge
- Stainless steel
- Degree of protection IP64
- Test protocol included

The KMB32 Series force transducer is a universal compression force cell. With dimensions of less than 32x10mm it is ideal for use in industrial applications such as insertion force testing, weighing and materials testing.

Data load cell			
Rated force (F <sub>nom.</sub> )	400 N	2 kN	8 kN
Rated characteristic value	2,0 mV / V ± 15,0 %		
Relative repeatability error	≤ 0,05 % F <sub>nom.</sub>		
Relative linearity error (% F <sub>nom.</sub> )	≤ ±0,15	≤ ±0,25	≤ ±0,35
Hysteresis (% F <sub>nom.</sub> )	≤ ±0,15	≤ ±0,25	≤ ±0,35
Relative deviation of zero signal	≤ ±3,0 % F <sub>nom.</sub>		
Rated displacement	≤ 0,15 mm		
Input resistance	700 ±10Ω		
Output resistance	700 ±10Ω		
Insulation resistance	≥ 500 MΩ @ 50 V DC		
Maximum operating force	≤ 150 % F <sub>nom.</sub>		
Rated range of excitation voltage	10 V DC / AC		
Operating range of excitation voltage	≤ 20 V DC / AC		
Rated temperature range	-50 °C .. +90 °C		
Compensated temperature range	+15 °C .. +70 °C		
Protection	IP64		
Temperature effect on characteristic value	≤ 0,36 % F <sub>nom.</sub> / 10 K		
Temperature effect on zero signal	≤ 0,18 % F <sub>nom.</sub> / 10 K		
Creep under load	≤ 0,5 % of rated output		
Cable dimension	4 x AWG26, cable shielded		
Cable length from body	ca. 3 m		
Body material	Stainless steel (17-4 PH)		
Mass	ca. 45 g		

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## Order code

### Description

<b>Series:</b>	<b>KMB32</b>		
<b>Connecting cable: Cable length 3 m</b>		<b>K</b>	
<b>Rated force: 400 N 2 kN 8 kN</b>			<b>400N 2KN 8KN</b>

## Accessories (not included in delivery)

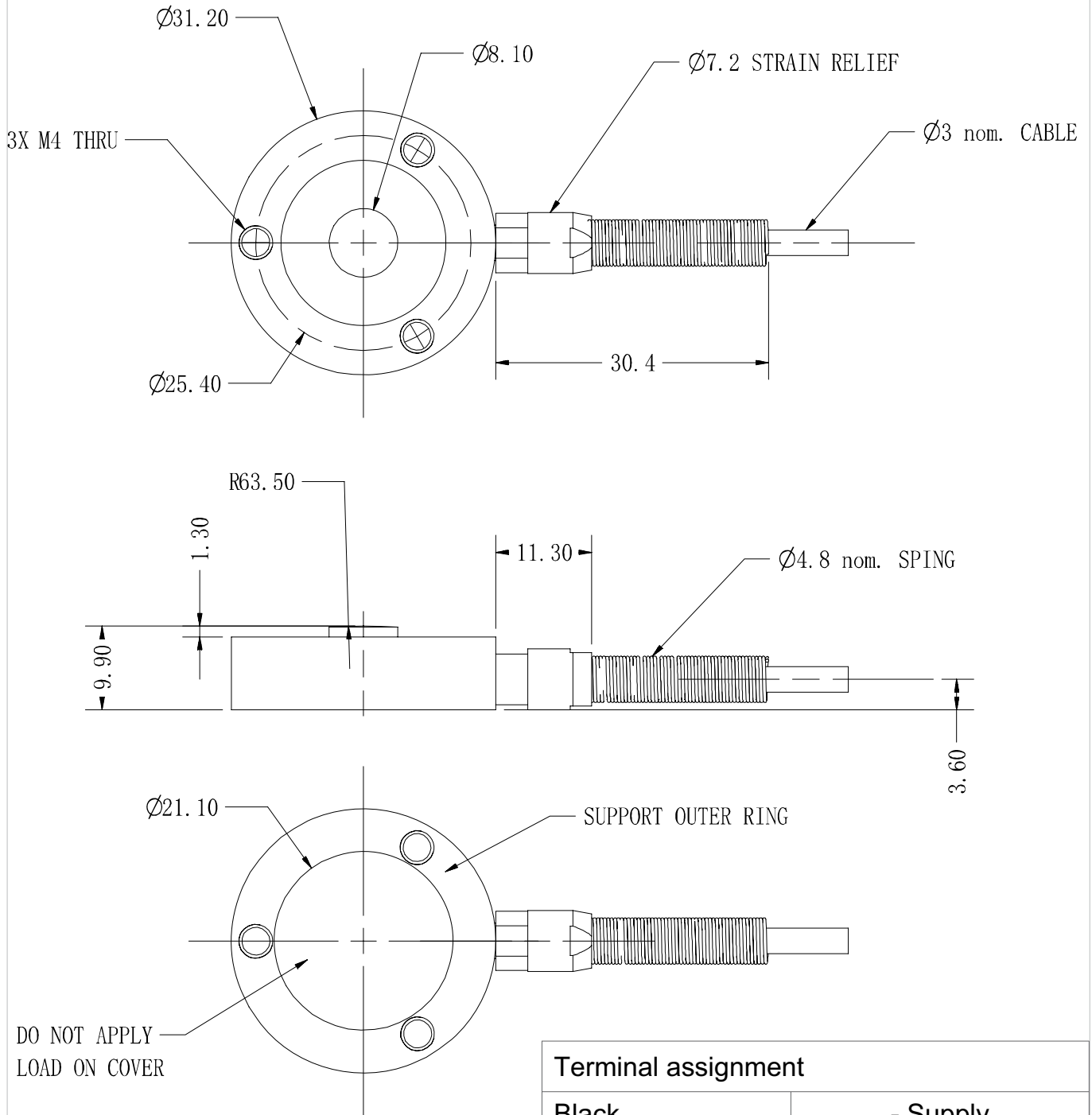
<b>Measuring amplifier</b>	IMA2 DMS
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## Drawing



Dimensions in mm

### Terminal assignment

Black	- Supply
Red	+ Supply
Green	+ Output
White	- Output